

FIG. 1

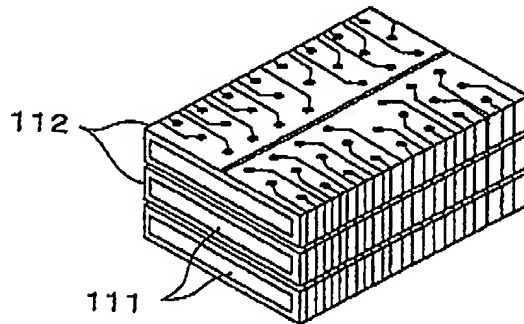


FIG. 2

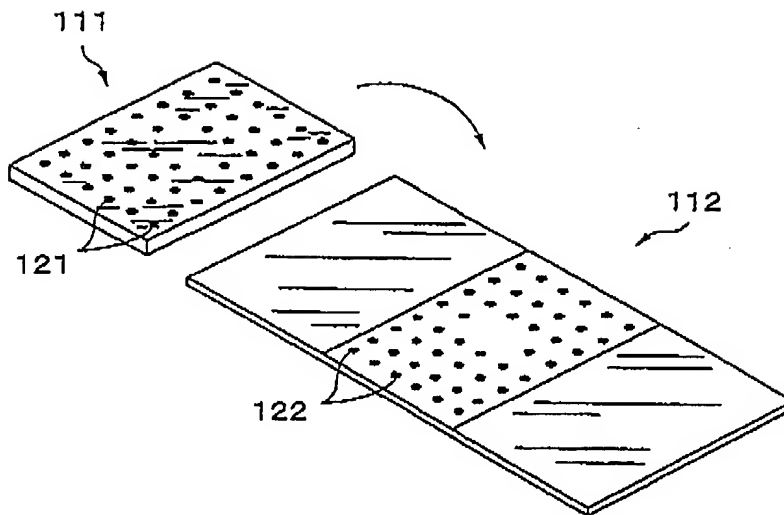


FIG. 3

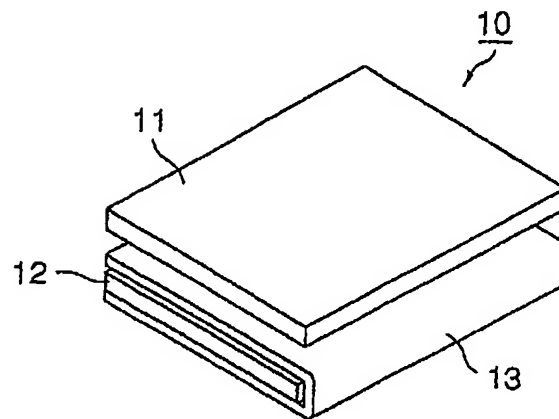


FIG. 4A

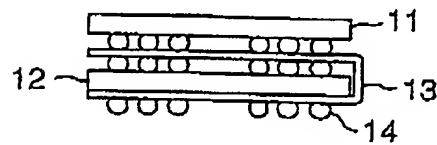


FIG. 4B

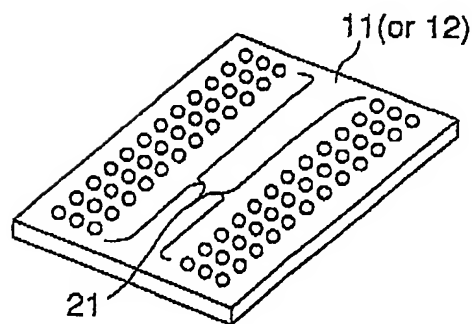


FIG. 8

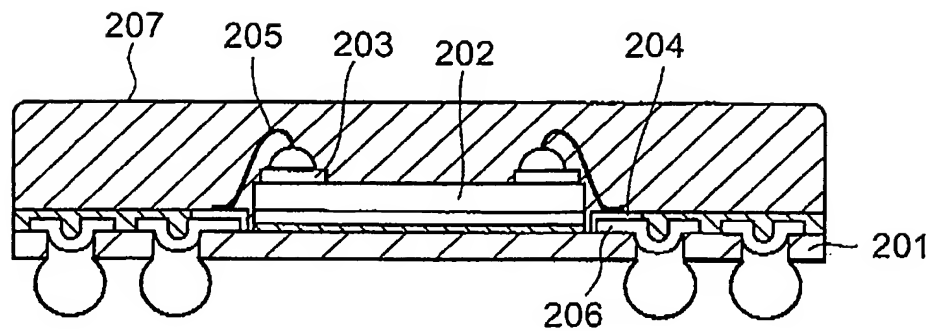


FIG. 5

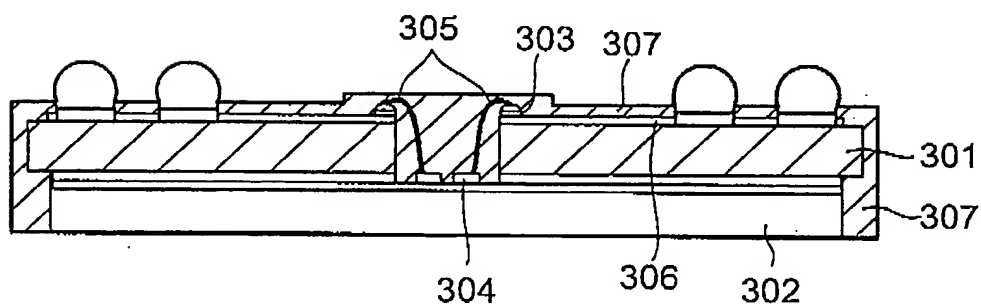


FIG. 6

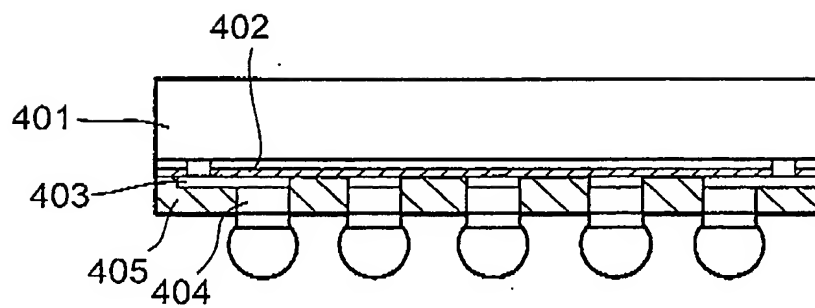


FIG. 7

1	2	3		7	8	9
VDD	NC	VSS	A	VSSQ	$\overline{\text{DQS}}$	VDDQ
NC	VSSQ	DM	B	DQS	VSSQ	NC
VDDQ	DQ1	VDDQ	C	VDDQ	$\overline{\text{DQ0}}$	VDDQ
NC	VSSQ	DQ3	D	DQ2	VSSQ	NC
VDDL	VREF	VSS	E	VSSDL	CK	VDD
	CKE	$\overline{\text{WE}}$	F	$\overline{\text{RAS}}$	$\overline{\text{CK}}$	OTD
BA2	BA0	BA1	G	$\overline{\text{CAS}}$	$\overline{\text{CS}}$	
	A10	A1	H	A2	A0	VDD
VSS	A3	A5	J	A6	A4	
	A7	A9	K	A11	A8	VSS
VDD	A12	A14	L	A15	A13	

FIG. 9

1	2	3		7	8	9
VDD	NC	VSS	A	VSSQ	$\overline{\text{DQS}}$	VDDQ
NC	VSSQ	DM	B	DQS	VSSQ	NC
VDDQ	DQ1	VDDQ	C	VDDQ	DQ0	VDDQ
NC	VSSQ	DQ3	D	DQ2	VSSQ	NC
VDDL	VREF	VSS	E	VSSDL	CK	VDD
	CKE0	$\overline{\text{WE}}$	F	$\overline{\text{RAS}}$	$\overline{\text{CK}}$	ODT0
BA2	BA0	BA1	G	$\overline{\text{CAS}}$	$\overline{\text{CS0}}$	$\overline{\text{CS1}}$
CKE1	A10	A1	H	A2	A0	VDD
VSS	A3	A5	J	A6	A4	ODT1
	A7	A9	K	A11	A8	VSS
VDD	A12	A14	L	A15	A13	

FIG. 10

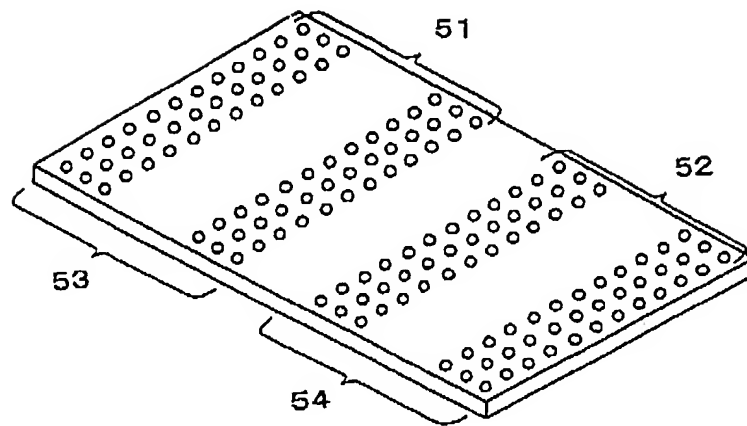


FIG. 11



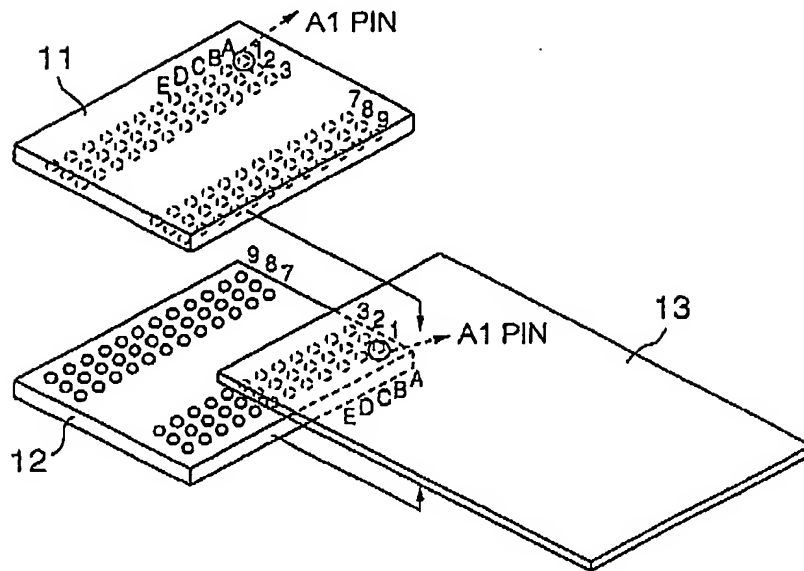


FIG. 12A

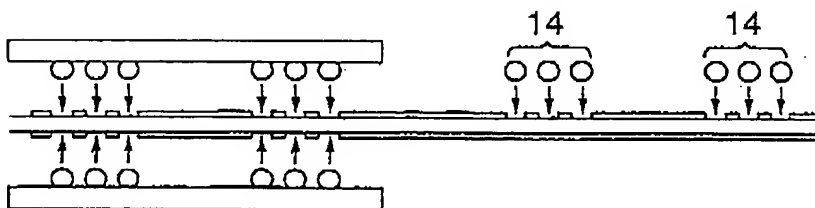


FIG. 12B

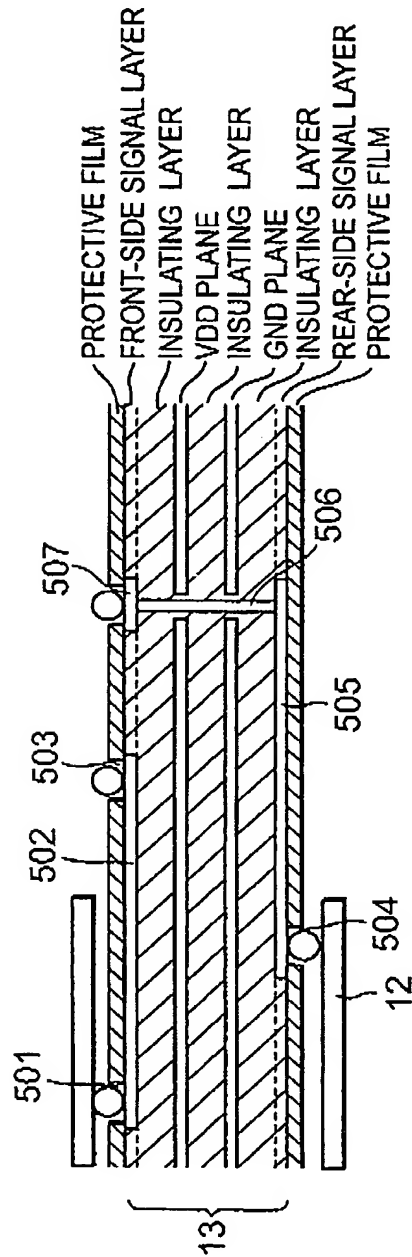


FIG. 13

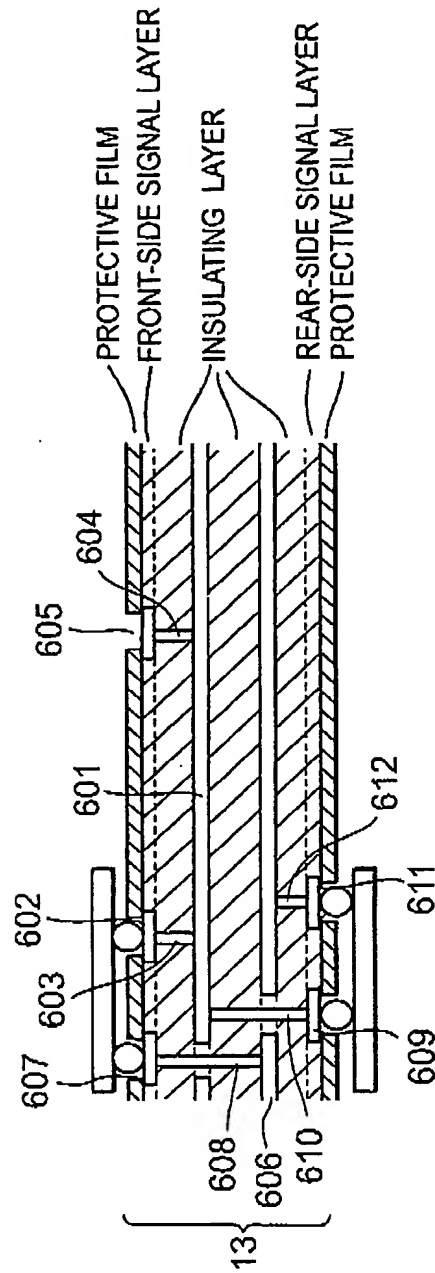


FIG. 14

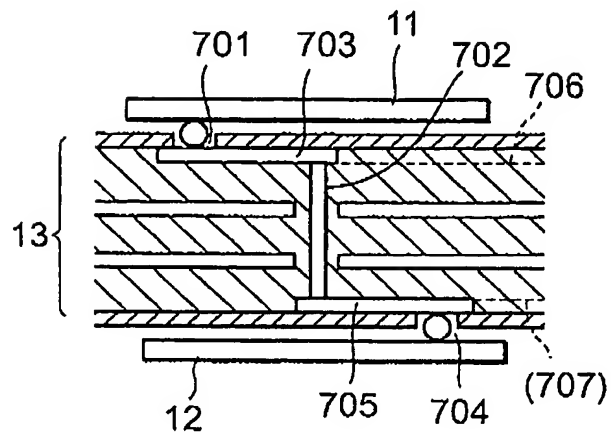


FIG. 15

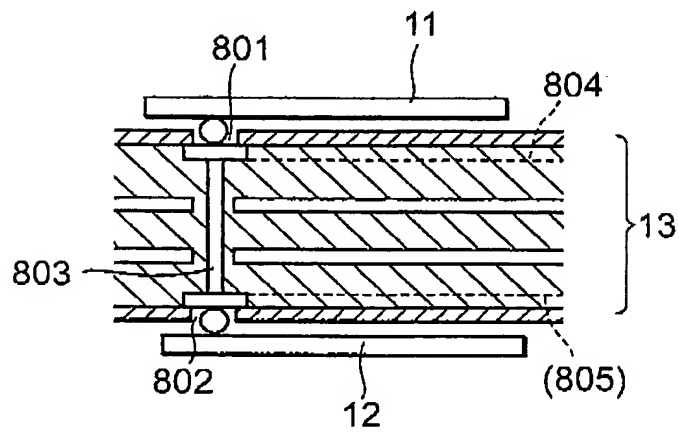


FIG. 16

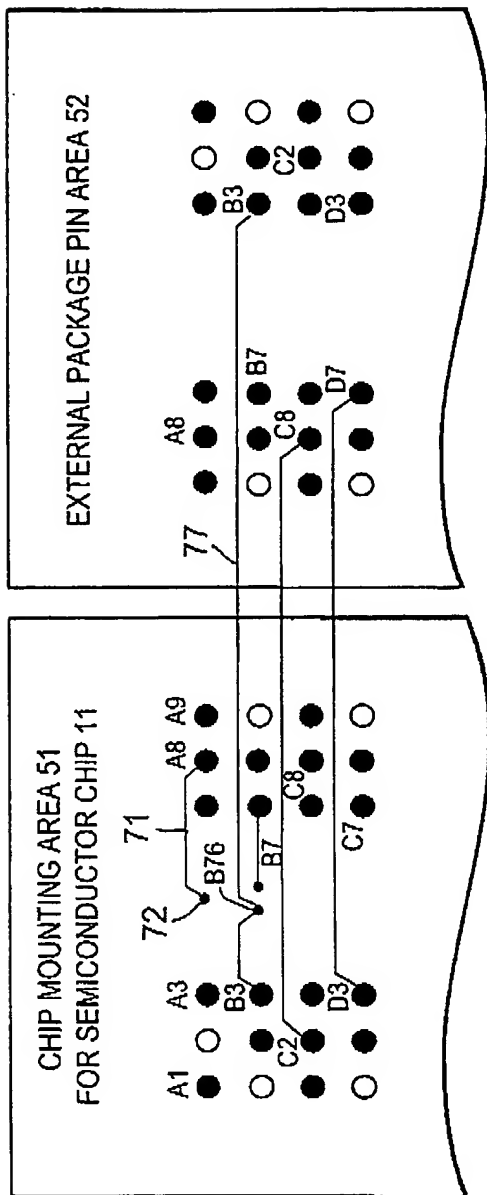


FIG. 17A

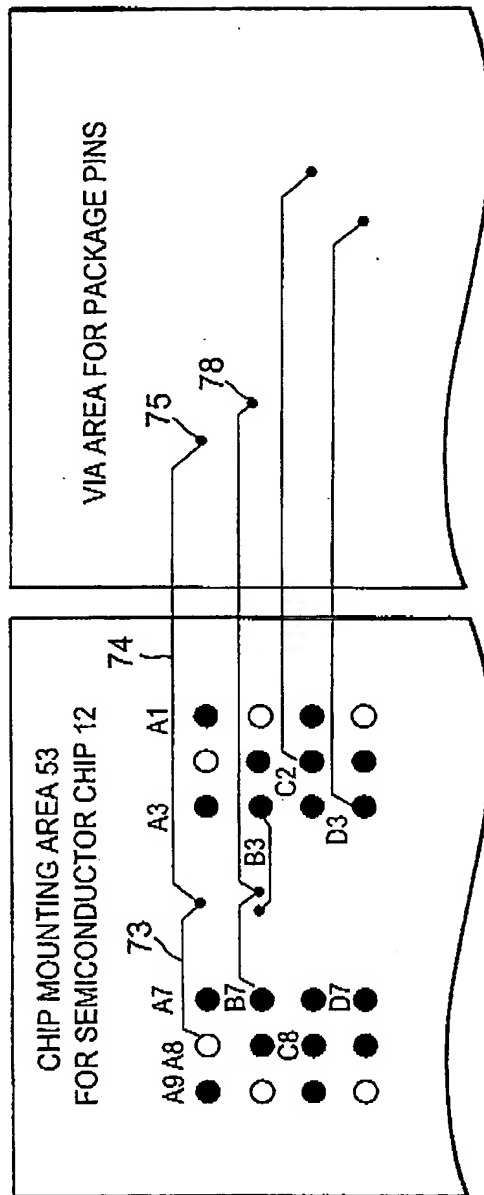


FIG. 17B

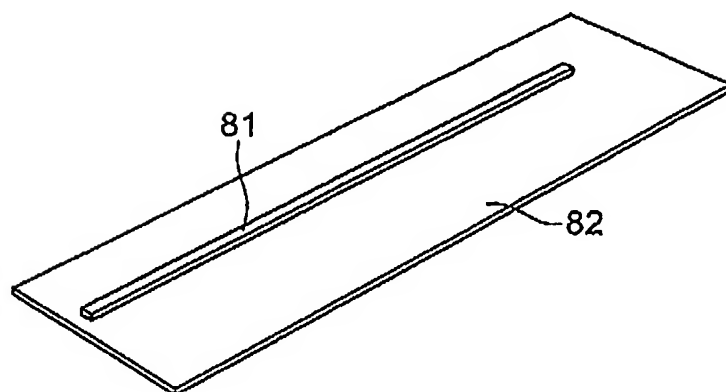


FIG. 18A

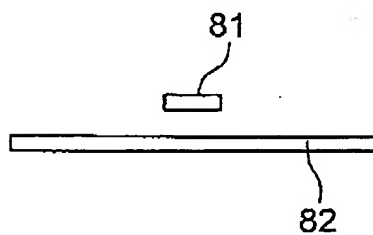


FIG. 18B

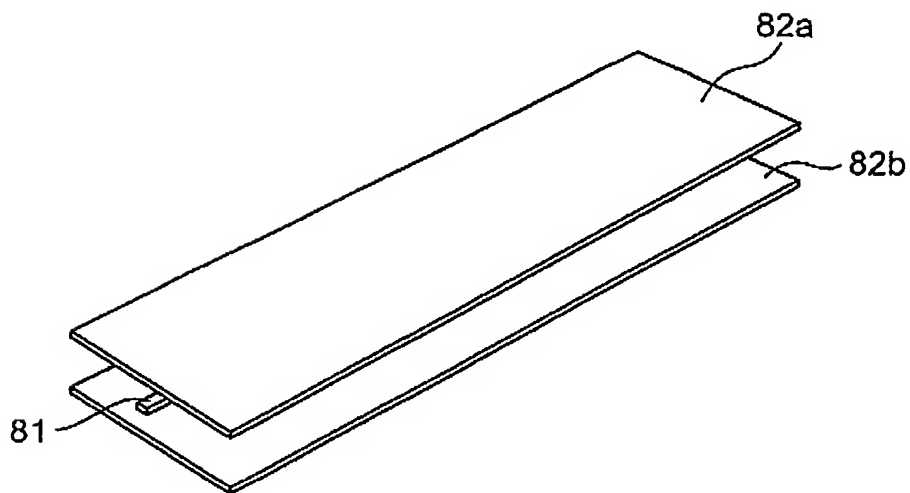


FIG. 19A

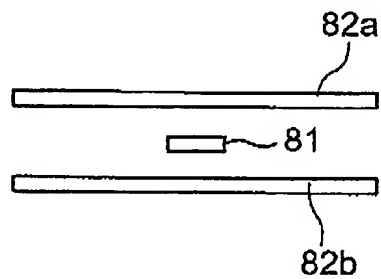


FIG. 19B

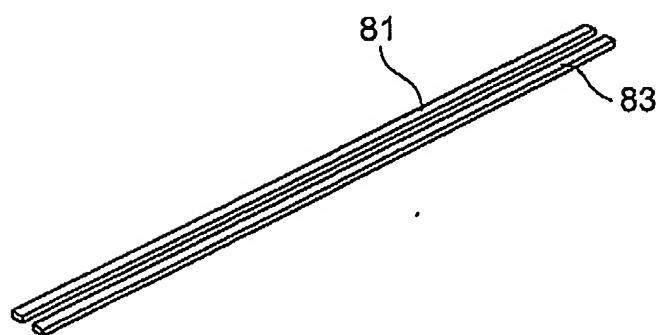


FIG. 20A

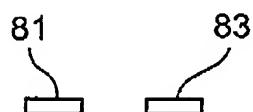


FIG. 20B



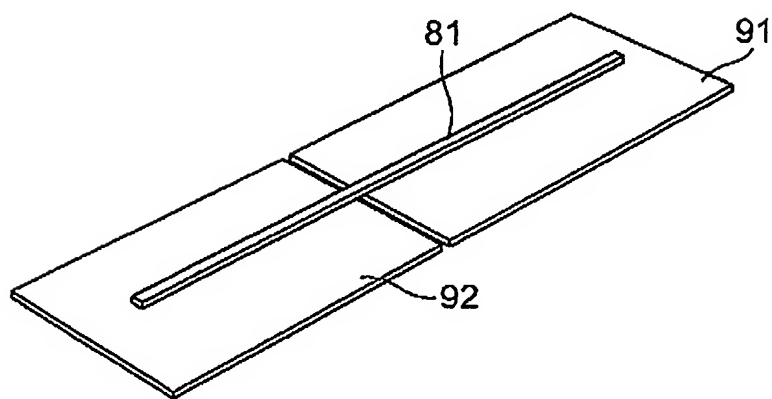


FIG. 21A

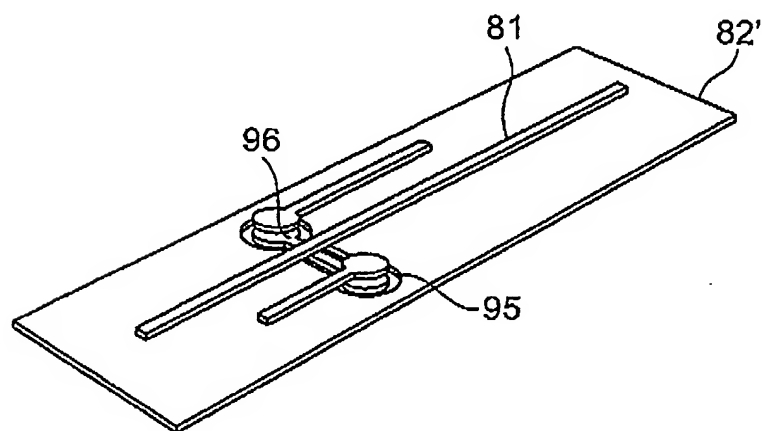


FIG. 21B

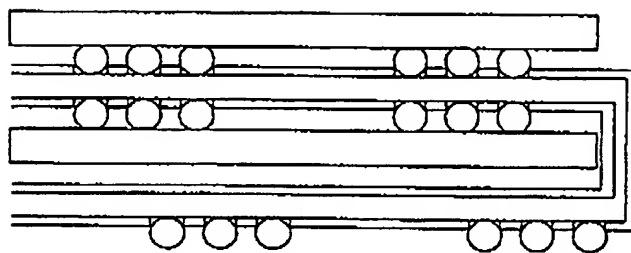


FIG. 22

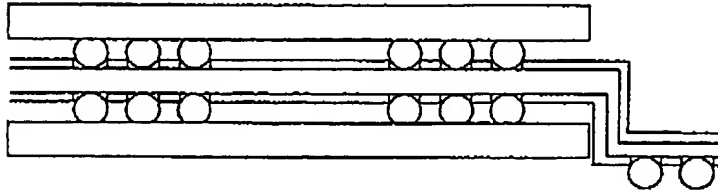


FIG. 23A

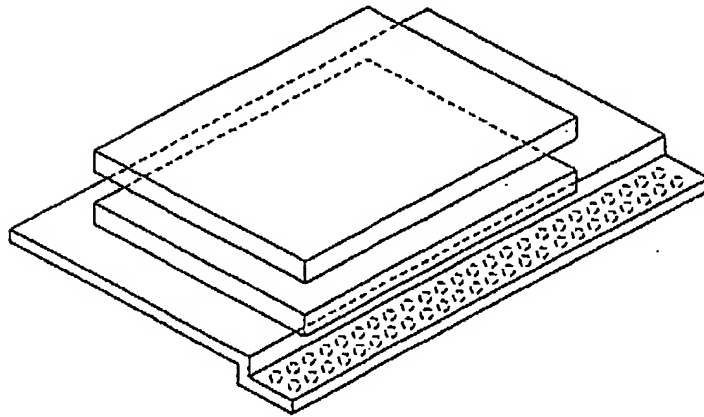


FIG. 23B